# SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

AFE-CA GREASE

of the mixture

Registration number

Synonyms None.

SDS number 1030-T21998-2

AFE-CA+70, AFE-CA+400 **Product code** 

17-February-2012 Issue date

Version number

**Revision date** 16-September-2019 04-December-2015 Supersedes date

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial lubricating grease (Package size 70gr and 400gr)

Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

THK Co.,LTD

HEAD OFFICE: 2-12-10, Shibaura, Minato-ku, Tokyo 108-8506 Japan THK GmbH: Kaiserswerther Strasse 115, D-40880 Ratingen, Germany

+49-(0)2102-7425-555 (THK GmbH) Telephone

info-msds@thk.eu (THK GmbH), thk022@thk.co.jp (THK Co., LTD) E-mail

1.4. Emergency telephone

number

+49-(0) 2102-7425-222 at workday 8 am - 5 pm (THK GmbH)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

**Environmental hazards** 

Hazardous to the aquatic environment, Category 4 H413 - May cause long lasting harmful effects to aquatic life. long-term aquatic hazard

Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory **Hazard summary** 

system and provoke coughing. Prolonged or repeated skin contact may cause drying, cracking, or

irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard pictograms** None. None Signal word

**Hazard statements** 

May cause long lasting harmful effects to aquatic life. H413

**Precautionary statements** 

Prevention

Avoid release to the environment. P273 Response Wash skin with soap and water.

Storage Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information EUH208 - Contains dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.

This mixture does not contain substances that are assessed to be vPvB / PBT according to 2.3. Other hazards

Regulation (EC) No 1907/2006, Annex XIII.

Prolonged and repeated contact with used grease may cause serious skin diseases.

AFE-CA GREASE SDS UK 3275 Version #: 03 Revision date: 16-September-2019 Issue date: 17-February-2012

### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name		%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
3,3'-Dioctadecyl -1,1'-methylenebis (4,1-phenylene) diurea		20 - 30	Proprietary 406-690-3	-	616-095-00-2	
Classification:	Aquatic Chro	equatic Chronic 4;H413				
Benzenamine, N-phenyl-, products with 2,4,4-trimet		0.5 - 1.5	Proprietary 270-128-1	-	-	
Classification:	Aquatic Chronic 3;H412					
Dihydro-3-(tetrapropenyl)ne	furan-2,5-dio	0.3 - 0.7	Proprietary 247-781-6	-	-	
Classification:	Skin Irrit. 2;H	1315, Skin	Sens. 1;H317, Eye Ir	rit. 2;H319, Aquatic Chronic	2;H411	

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

**General information** First aid personnel must be aware of own risk during rescue.

4.1. Description of first aid measures

Inhalation Move affected person into fresh air and keep warm. If breathing is difficult, give oxygen. Get

medical attention if any discomfort continues.

Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation Skin contact

persists after washing.

Flush thoroughly with water. If irritation occurs, get medical assistance. Make sure to remove any Eye contact

contact lenses from the eyes before rinsing.

Immediately rinse mouth and drink plenty of water. Never give anything by mouth to an Ingestion

unconscious person. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and

delayed

Prolonged or repeated skin contact may cause irritation.

Extinguish with foam, carbon dioxide or dry powder.

Do not use water or halogenated extinguishing media.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

### **SECTION 5: Firefighting measures**

General fire hazards This product is not flammable.

5.1. Extinguishing media

Suitable extinguishing

media

media

Unsuitable extinguishing

5.2. Special hazards arising from the substance or mixture

compounds whose composition have not been characterised.

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic

5.3. Advice for firefighters

Special protective equipment for firefighters

Selection of respiratory protection for firefighting; follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move container from fire area if it can be done without risk. Use standard firefighting procedures and consider the hazards of other involved materials. Containers close to fire should be removed or cooled with water.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin. Wear suitable protective clothing, gloves and eye/face protection. In case For non-emergency

personnel

of spills, beware of slippery floors and surfaces.

For emergency responders

Keep unnecessary personnel away.

6.2. Environmental precautions

Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic

environment.

6.3. Methods and material for containment and cleaning up Absorb spillage with non-combustible, absorbent material. Clean contaminated area with oil-removing material.

AFE-CA GREASE SDS UK

3275 Version #: 03 Revision date: 16-September-2019 Issue date: 17-February-2012

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

### **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid prolonged and repeated contact with grease, particularly used grease. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Wear appropriate personal protective equipment. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep container in a well-ventilated place. Store away from incompatible materials.

Industrial lubricating grease. 7.3. Specific end use(s)

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

No exposure limits noted for ingredient(s). Occupational exposure limits

**Biological limit values** No biological exposure limits noted for the ingredient(s). Recommended monitoring Follow the schedule for work place measurements.

procedures

Derived no effect levels

Not available.

(DNELs)

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Provide

access to washing facilities including soap, skin cleanser and fatty cream.

Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Keep working clothes separately. Personal

protective equipment should be chosen according to the CEN standards and in discussion with the

supplier of the personal protective equipment.

Eye/face protection Skin protection

Wear approved safety goggles.

- Hand protection

Wear protective gloves. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Application of a non-perfumed moisturizer is recommended.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement rules are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove

manufacturer and model.

Wear appropriate clothing to prevent repeated or prolonged skin contact. - Other

In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with Respiratory protection

combination filter (type A2/P2) can be used.

When material is heated, wear gloves to protect against thermal burns. Thermal hazards

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

**Environmental exposure** 

Contain spills and prevent releases and observe national regulations on emissions.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Paste. **Appearance** Solid. Physical state **Form** Paste. Colour Light brown.

AFE-CA GREASE SDS UK Odour Slight.

**Odour threshold** Not available. Not applicable. Melting point/freezing point 258 °C (496.4 °F) Initial boiling point and boiling Not available.

range

220.0 °C (428.0 °F) Setaflash Flash point

Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Vapour pressure Vapour density Not available.

Relative density 0.98

Insoluble in water. Solubility(ies) Partition coefficient Not available

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity **Explosive properties** Not available. Oxidising properties Not available.

9.2. Other information No relevant additional information available.

### **SECTION 10: Stability and reactivity**

10.1. Reactivity This product may react with strong oxidising agents.

Stable at normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Heat, sparks, flames, elevated temperatures.

10.5. Incompatible materials Strong oxidising agents. Carbon oxides. Metal oxides. 10.6. Hazardous

decomposition products

### **SECTION 11: Toxicological information**

The harmful effects may increase in used grease. **General information** 

Information on likely routes of exposure

Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory Inhalation

system and provoke coughing.

Skin contact May cause skin irritation.

Eye contact May cause eye irritation on direct contact. Ingestion may cause irritation and malaise. Ingestion

**Symptoms** Prolonged or repeated skin contact may cause irritation.

11.1. Information on toxicological effects

**Acute toxicity** Ingestion may cause irritation and malaise.

Components **Species Test Results** 

Dihydro-3-(tetrapropenyl)furan-2,5-dione (CAS Proprietary)

**Acute** 

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Prolonged or repeated skin contact may cause drying, cracking, or irritation.

AFE-CA GREASE SDS UK Version #: 03 

Serious eye damage/eye

irritation

May cause eye irritation on direct contact.

Respiratory sensitisation

Due to lack of data the classification is not possible.

Skin sensitisation

The product contains a small amount of sensitising substance which may provoke an allergic

reaction among sensitive individuals in contact with skin.

Germ cell mutagenicity

Due to lack of data the classification is not possible.

Carcinogenicity

Prolonged and repeated contact with used grease may cause serious skin diseases.

Based on viscosity, the product is not anticipated to be an aspiration hazard.

Reproductive toxicity Specific target organ toxicity - Due to lack of data the classification is not possible.

single exposure

Due to lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Other information

Due to lack of data the classification is not possible.

**Aspiration hazard** 

Mixture versus substance

information

The product is a mixture.

### **SECTION 12: Ecological information**

May cause long lasting harmful effects to aquatic life. 12.1. Toxicity

No data available.

12.2. Persistence and

None known.

degradability

12.3. Bioaccumulative potential None known. Partition coefficient Not available

n-octanol/water (log Kow)

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available.

The product is insoluble in water and will spread on the water surface. Mobility in general

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects Not available.

#### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Dispose in accordance with applicable federal, state, and local regulations. Residual waste

Since emptied containers retain product residue, follow label warnings even after container is Contaminated packaging

emptied.

16 03 05\* EU waste code

### **SECTION 14: Transport information**

14.1. - 14.6.: Not regulated as dangerous goods.

**RID** 

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC

Code

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU regulations** 

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

AFE-CA GREASE SDS UK

3275 Version #: 03 Revision date: 16-September-2019 Issue date: 17-February-2012

Not available.

#### Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

#### List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

LD50: Lethal Dose 50%.

References EU Regulation (EC) 1272/2008 (CLP Regulation) as amended

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under

Sections 2 to 15 H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Training information

Follow training instructions when handling this material.

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**Disclaimer**This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard

workers and the environment.

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